

**JOB OFFER** 

# **SENIOR RESEARCHER**

Position: Senior researcher in LCA and techno-economic analysis Offer date: WEB Publication Proyect: CIIAE – REF. IS-LCA (ELÉCTRICO E HIDRÓGENO Y POWER-TO-X) Departament: Electric Storage and Hydrogen and Power-to-X Estimated starting date: 1<sup>st</sup> Quarter 2024

Workplace:	University of Extremadura. Cáceres campus	
Tasks to be develped:	<ul> <li>In "LCA" and techno-economic a respectively, of products and serviextraction, manufacturing, technoloshould be open whenever possible, on increased transparency, reprodute the selected candidate is expected</li> <li>Developing an attractive reanalysis</li> <li>Creation of open source technologies, linked to reaning technologies, linked techno</li></ul>	to perform the following tasks: esearch agenda in the field of LCA and techno-economic e LCA models of energy storage and hydrogen ewable energies ergy system modelling bilot plants for sustainability indicators is to decision-makers based on modelling results imental researchers from CIIAE and other research funding, both private and public, e.g. PhD students ith universities, research institutes and companies at level. PhD, postdoctoral and master students, i.e. fulfilling st author (e.g. 1 article per year in a high-ranking project administration (internal and external), also
Duration of the contract and salary:	Temporary Contract Initial duration: September 2025, with the possibility of extension	Gross Salary + S.S. Fees Gross Salary Range: 45,000 €
Academic background required:	A PhD. in Chemical Engineering / Chemical Sciences / Industrial Engineering or equivalent / Physics / Natural Sciences / Industrial Ecology / Environmental Sciences / or similar	







Plan de Recuperación, Transformación y Resiliencia







## **JOB OFFER**

Other education:		
Professional experience:	<ul> <li>Minimum 2 years postdoctoral experience</li> <li>LCA projects and/or techno-economic analysis minimum 2 years.</li> <li>Participation in at least 4 European (H2020, FP7, etc.) or equivalent national projects, or equivalent experience in a private company.</li> </ul>	
Job requirements (have to be fulfilled):	Specific techniques (analytical, software, calculations, prototyping, etc.)	<ul> <li>Excellent analytical skills and experience in LCA (OpenLCA, Brightway 2, SimaPro, Ecoinvent, etc.). But the work will be mainly on open source Brightway2.</li> <li>Experience in techno-economic analysis (e.g. LCOE) and circular economy</li> <li>Previous experience with Input-Output method</li> <li>Statistical skills e.g. statistical testing and regression</li> <li>General-purpose language programming experience (any language, but the work will be mainly in Python and Matlab)</li> </ul>
	Participation and/or collaboration in R&D&I/business projects	Minimum participation in 4 European, national or company research projects
	Experience in Research Centres / Companies	YES. Minimum stay of 1 year (in total)
	Languages	Excellent oral and written skills in English
	Cross-cutting competences	<ul> <li>Ability to lead a team towards funding and goals</li> <li>Commitment to open science in terms of research methods, data and publications</li> <li>Proven experience with industrial collaborations and/or previous experience working in industry</li> <li>Experience in collaborating with other colleagues in the same department and externally</li> <li>Communication skills</li> </ul>
	Willingness to travel and stay abroad	Yes
	Publications: scientific articles (in journals indexed in Web of Science and/or Scopus), theses (PhD and/or Master's), presentations at conferences, reports, technical reports, technical guides, etc.	A strong academic publication record as first author and co- author is expected as the candidate should publish in leading journals in the field. At least 10 publications in Scopus indexed journals.







Plan de Recuperación, Transformación y Resiliencia







## **JOB OFFER**

#### To be evaluated (adds points to the final evaluation): Have been Principal Investigator in regional/national/European or direct contracting projects. Have supervised doctoral theses and master's theses. "GIS" modelling \_ Experience with "MCDA" Knowledge of modelling and optimisation of energy systems Experience with statistical learning and machine learning models Valuable knowledge of Circular Economy of energy storage systems. \_ Valuable knowledge of Spanish and/or Portuguese Experience with Marie Curie fellowships or equivalent competitive research contracts. Awards, distinctions or any merit that is in line with the position described. Motivation letter (maximum 2 pages) included with the application \_ Evaluation provided by 2 references via telephone conversation. The contact details of the references (e-mail and telephone) are provided by the candidates in their application. Selection process details: Technical test: Scientific project: NO Language (English): yes (will be evaluated during the interview)

Job interview: yes

#### Interested candidates:

Send all the necessary documentation included in THE RULES OF THE CALL and THE JOB OFFER, as well as THE APPLICATION FOR ADMISSION. Deadline 15 calendar days from the day after the publication on the WEB, indicating **REF. IS-LCA (ELÉCTRICO E HIDRÓGENO Y POWER-TO-X)** 

FUNDECYT-PCTEX (Edificio Parque Científico Tecnológico), Avda. de la Investigación, s/n, Edificio PCTEX, Campus de la Universidad de Extremadura – 06006 Badajoz (España)

Email: ciiae.personal@fundecyt-pctex.es Phone number: +34 924 014 594

www.fundecyt-pctex.es www.ciiae.org









